

## CLAIMS

1. A dielectric barrier discharge-driven light source comprising:  
5 a first and second dielectric barrier which enclose a gas;  
a first and second electrode coupled to an outside portion of said first and second dielectric  
barriers; and  
one or more stems coupled to an inside portion of said first and second dielectric barriers.
- 10 2. The light source of claim 1 wherein said first and second dielectric barriers have a  
flat-panel shape.
3. The light source of claim 2 where said flat panel shape is circular.
- 15 4. The light source of claim 1 wherein said stems are comprised of quartz.
5. The light source of claim 1 wherein said stems are equidistant.
6. The light source of claim 1 wherein said second electrode is a mesh.
- 20 7. The light source of claim 1 wherein said first and second dielectric barriers are  
comprised of silica.

8. The light source of claim 1 wherein said stems are coupled to said first and second dielectric barriers using transfer-foil-technology.

9. A method for manufacturing a dielectric barrier discharge-driven light source  
5 comprising:

coupling a first and second electrode to a corresponding outside portion of a first and second dielectric barrier;

coupling one or more stems to a corresponding inside portion of said first and second dielectric barriers;

10 cleaning a sealed area between said first and second dielectric barriers; and  
adding a gas to said sealed area.

10. The method of claim 10 wherein said step of cleaning further comprises:  
heating said dielectric barrier discharge-driven light source; and  
15 exposing said dielectric barrier discharge-driven light source to a vacuum.

11. The method of claim 9 wherein said first and second dielectric barriers have a flat-panel shape.

20 12. The method of claim 11 where said flat-panel shape is circular.

13. The method of claim 9 wherein said stems are comprised of quartz.

14. The method of claim 9 wherein said stems are equidistant.

15. The method of claim 9 wherein said second electrode is a mesh.

16. The method of claim 9 wherein said first and second dielectric barriers are  
5 comprised of silica.

17. The method of claim 9 wherein said stems are coupled to said first and second  
dielectric barriers using transfer-foil-technology.